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## IN THE CLAIMS

Presented below are all of the pending claims.

- 1 1. (Cancelled).
- 1 2. (Currently amended) An apparatus, comprising:
- 2 a metal-oxide-semiconductor transistor;
- a metallic gate electrode coupled to a diffused gate region of said
- 4 metal-oxide-semiconductor transistor and to a positive <u>power supply</u>
- 5 voltage source trace; and
- a metallic source electrode and a metallic drain electrode coupled
- 7 to said metal-oxide-semiconductor transistor and to each other and to a
- 8 negative power supply voltage source trace, wherein said metal-oxide-
- 9 semiconductor transistor includes the diffused gate region formed from
- 10 material with a work function less than 0.56 volts.
  - 1 3. (Previously amended) The apparatus of claim 2, wherein
- 2 said material of said diffused gate region is platinum silicate.
- 1 4. (Previously amended) The apparatus of claim 2, wherein
- 2 said material of said diffused gate region is selected from the group
- 3 consisting of tantalum nitrate, iridium, nickel, and arsenic.

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- 1 5. (Previously amended) The apparatus of claim 2, wherein 2 said metal-oxide-semiconductor transistor includes a heavily-doped 3 substrate area.
- 1 6. (Previously amended) The apparatus of claim 2, wherein 2 said metal-oxide-semiconductor transistor is a p-channel device.
- 7. (Previously amended) The apparatus of claim 2, wherein said metal-oxide-transistor is an n-channel device.
- 1 8 through 19. (Cancelled)
- 1 20. (Currently amended) An apparatus, comprising:
- a metallic gate electrode to coupled to a positive power supply
- 3 voltage <u>trace</u>;
- 4 a diffused gate region formed from a material whose
- 5 work function is less than minus 0.56 volts <u>coupled to</u>
- 6 <u>said metallic gate electrode</u>;
- 7 a gate insulator area coupled to said diffused gate region;
- 8 a channel area coupled to said gate insulator area;
- 9 a diffused drain <del>area</del> coupled to said channel <del>area</del>; and
- a diffused source <del>area</del> coupled to said channel <del>area</del>.
- 1 21. (Previously added) The apparatus of claim 20, wherein said 2 material is platinum silicate.

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- 1 22. (Previously added) The apparatus of claim 20, wherein said
- 2 material is selected from the group consisting of tantalum nitrate,
- 3 iridium, nickel, and arsenic.
- 1 23. (Previously added) The apparatus of claim 20, further
- 2 comprising a substrate which is heavily-doped.